



RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/612,466
Source: OIPF
Date Processed by STIC: 8/11/2003

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

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<http://www.uspto.gov/web/offices/pac/checker>

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1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



OIEP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/612,466

DATE: 08/11/2003

TIME: 13:38:59

Input Set : A:\1625seq.001

Output Set: N:\CRF4\08112003\J612466.raw

3 <110> APPLICANT: Madison, Edwin
 4 Ong, Edgar
 5 Yeh, Juinn-Chern
 7 <120> TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING SERINE PROTEASE 16, THE
 8 ENCODED PROTEINS AND METHODS BASED THEREON
 10 <130> FILE REFERENCE: 24745-1625
 12 <140> CURRENT APPLICATION NUMBER: US/10/612,466
 13 <141> CURRENT FILING DATE: 2003-07-01
 15 <150> PRIOR APPLICATION NUMBER: 60/394,347
 W--> 16 <151> PRIOR FILING DATE: 02-JUL-02 2002-07-02
 18 <160> NUMBER OF SEQ ID NOS: 22
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 23 <211> LENGTH: 3147
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Homo Sapien
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 29 <222> LOCATION: (23)...(2589)
 30 <223> OTHER INFORMATION: Nucleotide sequence encoding MTSP1
 32 <300> PUBLICATION INFORMATION:
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 34 <309> DATABASE ENTRY DATE: 2000-08-31
 36 <400> SEQUENCE: 1
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 39 1 5 10
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 42 Gly Gly Pro Lys Asp Phe Gly Ala Gly Leu Lys Tyr Asn Ser Arg His
 43 15 20 25
 45 gag aaa gtg aat ggc ttg gag gaa ggc gtg gag ttc ctg cca gtc aac 148
 46 Glu Lys Val Asn Gly Leu Glu Glu Gly Val Glu Phe Leu Pro Val Asn
 47 30 35 40
 49 aac gtc aag aag gtg gaa aag cat ggc ccg ggg cgc tgg gtg gtg ctg 196
 50 Asn Val Lys Lys Val Glu Lys His Gly Pro Gly Arg Trp Val Val Leu
 51 45 50 55
 53 gca gcc gtg ctg atc ggc ctc ctc ttg gtc ttg ctg ggg atc ggc ttc 244
 54 Ala Ala Val Leu Ile Gly Leu Leu Leu Val Leu Leu Gly Ile Gly Phe
 55 60 65 70
 57 ctg gtg tgg cat ttg cag tac cgg gac gtg cgt gtc cag aag gtc ttc 292
 58 Leu Val Trp His Leu Gln Tyr Arg Asp Val Arg Val Gln Lys Val Phe
 59 75 80 85 90
 61 aat ggc tac atg agg atc aca aat gag aat ttt gtg gat gcc tac gag 340

use this date format
Does Not Comply
Corrected Diskette Needed

Does Not Comply
Corrected Diskette Needed
see p. 6

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67				110						115				120			
69	gcg	ctg	aag	ctg	ctg	tac	agc	gga	gtc	cca	ttc	ctg	ggc	ccc	tac	cac	436
70	Ala	Leu	Lys	Leu	Leu	Tyr	Ser	Gly	Val	Pro	Phe	Leu	Gly	Pro	Tyr	His	
71			125					130					135				
73	aag	gag	tcg	gct	gtg	acg	gcc	ttc	agc	gag	ggc	agc	gtc	atc	gcc	tac	484
74	Lys	Glu	Ser	Ala	Val	Thr	Ala	Phe	Ser	Glu	Gly	Ser	Val	Ile	Ala	Tyr	
75		140					145				150						
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78	Tyr	Trp	Ser	Glu	Phe	Ser	Ile	Pro	Gln	His	Leu	Val	Glu	Glu	Ala	Glu	
79	155					160				165				170			
81	cgc	gtc	atg	gcc	gag	gag	cgc	gta	gtc	atg	ctg	ccc	ccg	cgg	gcg	cgc	580
82	Arg	Val	Met	Ala	Glu	Glu	Arg	Val	Val	Met	Leu	Pro	Pro	Arg	Ala	Arg	
83				175						180				185			
85	tcc	ctg	aag	tcc	ttt	gtg	gtc	acc	tca	gtg	gtg	gct	ttc	ccc	acg	gac	628
86	Ser	Leu	Lys	Ser	Phe	Val	Val	Thr	Ser	Val	Val	Ala	Phe	Pro	Thr	Asp	
87			190						195				200				
89	tcc	aaa	aca	gta	cag	agg	acc	cag	gac	aac	agc	tgc	agc	ttt	ggc	ctg	676
90	Ser	Lys	Thr	Val	Gln	Arg	Thr	Gln	Asp	Asn	Ser	Cys	Ser	Phe	Gly	Leu	
91		205					210				215						
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94	His	Ala	Arg	Gly	Val	Glu	Leu	Met	Arg	Phe	Thr	Thr	Pro	Gly	Phe	Pro	
95		220				225				230							
97	gac	agc	ccc	tac	ccc	gct	cat	gcc	cgc	tgc	cag	tgg	gcc	ctg	cgg	ggg	772
98	Asp	Ser	Pro	Tyr	Pro	Ala	His	Ala	Arg	Cys	Gln	Trp	Ala	Leu	Arg	Gly	
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103				255					260				265				
105	tcc	tgc	gac	gag	cgc	ggc	agc	gac	ctg	gtg	acg	gtg	tac	aac	acc	ctg	868
106	Ser	Cys	Asp	Glu	Arg	Gly	Ser	Asp	Leu	Val	Thr	Val	Tyr	Asn	Thr	Leu	
107			270					275					280				
109	agc	ccc	atg	gag	ccc	cac	gcc	ctg	gtg	cag	ttg	tgt	ggc	acc	tac	cct	916
110	Ser	Pro	Met	Glu	Pro	His	Ala	Leu	Val	Gln	Leu	Cys	Gly	Thr	Tyr	Pro	
111		285					290				295						
113	ccc	tcc	tac	aac	ctg	acc	ttc	cac	tcc	tcc	cag	aac	gtc	ctg	ctc	atc	964
114	Pro	Ser	Tyr	Asn	Leu	Thr	Phe	His	Ser	Ser	Gln	Asn	Val	Leu	Leu	Ile	
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118	Thr	Leu	Ile	Thr	Asn	Thr	Glu	Arg	Arg	His	Pro	Gly	Phe	Glu	Ala	Thr	
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126	Ala	Gln	Gly	Thr	Phe	Asn	Ser	Pro	Tyr	Tyr	Pro	Gly	His	Tyr	Pro	Pro	

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130	Asn Ile Asp Cys Thr Trp Asn Ile Glu Val Pro Asn Asn Gln His Val							
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134	Lys Val Ser Phe Lys Phe Phe Tyr Leu Leu Glu Pro Gly Val Pro Ala							
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137	ggc acc tgc ccc aag gac tac gtg gag atc aat ggg gag aaa tac tgc							1252
138	Gly Thr Cys Pro Lys Asp Tyr Val Glu Ile Asn Gly Glu Lys Tyr Cys							
139	395		400		405		410	
141	gga gag agg tcc cag ttc gtc gtc acc agc aac agc aac aag atc aca							1300
142	Gly Glu Arg Ser Gln Phe Val Val Thr Ser Asn Ser Asn Lys Ile Thr							
143		415		420		425		
145	gtt cgc ttc cac tca gat cag tcc tac acc gac acc ggc ttc tta gct							1348
146	Val Arg Phe His Ser Asp Gln Ser Tyr Thr Asp Thr Gly Phe Leu Ala							
147		430		435		440		
149	gaa tac ctc tcc tac gac tcc agt gac cca tgc ccg ggg cag ttc acg							1396
150	Glu Tyr Leu Ser Tyr Asp Ser Ser Asp Pro Cys Pro Gly Gln Phe Thr							
151		445		450		455		
153	tgc cgc acg ggg cgg tgt atc cgg aag gag ctg cgc tgt gat ggc tgg							1444
154	Cys Arg Thr Gly Arg Cys Ile Arg Lys Glu Leu Arg Cys Asp Gly Trp							
155		460		465		470		
157	gcc gac tgc acc gac cac agc gat gag ctc aac tgc agt tgc gac gcc							1492
158	Ala Asp Cys Thr Asp His Ser Asp Glu Leu Asn Cys Ser Cys Asp Ala							
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162	Gly His Gln Phe Thr Cys Lys Asn Lys Phe Cys Lys Pro Leu Phe Trp							
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166	Val Cys Asp Ser Val Asn Asp Cys Gly Asp Asn Ser Asp Glu Gln Gly							
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169	tgc agt tgt ccg gcc cag acc ttc agg tgt tcc aat ggg aag tgc ctc							1636
170	Cys Ser Cys Pro Ala Gln Thr Phe Arg Cys Ser Asn Gly Lys Cys Leu							
171		525		530		535		
173	tcg aaa agc cag cag tgc aat ggg aag gac gac tgt ggg gac ggg tcc							1684
174	Ser Lys Ser Gln Gln Cys Asn Gly Lys Asp Asp Cys Gly Asp Gly Ser							
175		540		545		550		
177	gac gag gcc tcc tgc ccc aag gtg aac gtc gtc act tgt acc aaa cac							1732
178	Asp Glu Ala Ser Cys Pro Lys Val Asn Val Val Thr Cys Thr Lys His							
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181	acc tac cgc tgc ctc aat ggg ctc tgc ttg agc aag ggc aac cct gag							1780
182	Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu Ser Lys Gly Asn Pro Glu							
183		575		580		585		
185	tgt gac ggg aag gag gac tgt agc gac ggc tca gat gag aag gac tgc							1828
186	Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly Ser Asp Glu Lys Asp Cys							
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190	Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln Ala Arg Val Val Gly Gly							
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198 Leu Gly Gln Gly His Ile Cys Gly Ala Ser Leu Ile Ser Pro Asn Trp
199 635      640      645      650
201 ctg gtc tct gcc gca cac tgc tac atc gat gac aga gga ttc agg tac 2020
202 Leu Val Ser Ala Ala His Cys Tyr Ile Asp Asp Arg Gly Phe Arg Tyr
203      655      660      665
205 tca gac ccc acg cag tgg acg gcc ttc ctg ggc ttg cac gac cag agc 2068
206 Ser Asp Pro Thr Gln Trp Thr Ala Phe Leu Gly Leu His Asp Gln Ser
207      670      675      680
209 cag cgc agc gcc cct ggg gtg cag gag cgc agg ctc aag cgc atc atc 2116
210 Gln Arg Ser Ala Pro Gly Val Gln Glu Arg Arg Leu Lys Arg Ile Ile
211      685      690      695
213 tcc cac ccc ttc ttc aat gac ttc acc ttc gac tat gac atc gcg ctg 2164
214 Ser His Pro Phe Phe Asn Asp Phe Thr Phe Asp Tyr Asp Ile Ala Leu
215      700      705      710
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221 tgc ctg ccg gac gcc tcc cat gtc ttc cct gcc ggc aag gcc atc tgg 2260
222 Cys Leu Pro Asp Ala Ser His Val Phe Pro Ala Gly Lys Ala Ile Trp
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225 gtc acg ggc tgg gga cac acc cag tat gga ggc act ggc gcg ctg atc 2308
226 Val Thr Gly Trp Gly His Thr Gln Tyr Gly Gly Thr Gly Ala Leu Ile
227      750      755      760
229 ctg caa aag ggt gag atc cgc gtc atc aac cag acc acc tgc gag aac 2356
230 Leu Gln Lys Gly Glu Ile Arg Val Ile Asn Gln Thr Thr Cys Glu Asn
231      765      770      775
233 ctc ctg ccg cag cag atc acg ccg cgc atg atg tgc gtg ggc ttc ctc 2404
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237 agc ggc ggc gtg gac tcc tgc cag ggt gat tcc ggg gga ccc ctg tcc 2452
238 Ser Gly Gly Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser
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247      830      835      840
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255 ctccagggt ccaaactctg ctagaaaacc tctcgcttcc tcagcctcca aagtggagct 2779
256 gggaggtaga aggggaggac actggtggtt ctactgaccc aactgggggc aaaggtttga 2839

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265 <211> LENGTH: 855
266 <212> TYPE: PRT
267 <213> ORGANISM: Homo Sapien
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275 35 40 45
276 Lys His Gly Pro Gly Arg Trp Val Val Leu Ala Ala Val Leu Ile Gly
277 50 55 60
278 Leu Leu Leu Val Leu Leu Gly Ile Gly Phe Leu Val Trp His Leu Gln
279 65 70 75 80
280 Tyr Arg Asp Val Arg Val Gln Lys Val Phe Asn Gly Tyr Met Arg Ile
281 85 90 95
282 Thr Asn Glu Asn Phe Val Asp Ala Tyr Glu Asn Ser Asn Ser Thr Glu
283 100 105 110
284 Phe Val Ser Leu Ala Ser Lys Val Lys Asp Ala Leu Lys Leu Leu Tyr
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287 130 135 140
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289 145 150 155 160
290 Ile Pro Gln His Leu Val Glu Glu Ala Glu Arg Val Met Ala Glu Glu
291 165 170 175
292 Arg Val Val Met Leu Pro Pro Arg Ala Arg Ser Leu Lys Ser Phe Val
293 180 185 190
294 Val Thr Ser Val Val Ala Phe Pro Thr Asp Ser Lys Thr Val Gln Arg
295 195 200 205
296 Thr Gln Asp Asn Ser Cys Ser Phe Gly Leu His Ala Arg Gly Val Glu
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298 Leu Met Arg Phe Thr Thr Pro Gly Phe Pro Asp Ser Pro Tyr Pro Ala
299 225 230 235 240
300 His Ala Arg Cys Gln Trp Ala Leu Arg Gly Asp Ala Asp Ser Val Leu
301 245 250 255
302 Ser Leu Thr Phe Arg Ser Phe Asp Leu Ala Ser Cys Asp Glu Arg Gly
303 260 265 270
304 Ser Asp Leu Val Thr Val Tyr Asn Thr Leu Ser Pro Met Glu Pro His
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10/6/2466 6

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<213> ORGANISM: Artificial Sequence

<213> Homo Sapien

<220> FEATURE:

<223> OTHER INFORMATION: :

<400> SEQUENCE: 21

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35 40 45
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50 55 60
Val Ala Ala Ala Val Ser Ile Leu Thr Gln Arg Ile Cys Asp Cys Leu
65 70 75 80
Tyr Gln Gly Ile Leu Pro Pro Gly Thr Leu Cys Val Leu Tyr Ala Glu
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which response is the valid one?

If it is "Artificial Sequence" include <220>-<223>

section
and explanation
of source
material on
<223> line

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<211> LENGTH: 37

<212> TYPE: PRT

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<213> Homo Sapien

<220> FEATURE:

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Phe Phe Pro Leu Gln
35

same error